

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Cinchona pubescens*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
38	(-)-EPICATECHIN	Bark	--	--		
1	1-HYDROXY-2-HYDROXYMETHYLANTHRAQUINONE	Tissue Culture	--	--		
2	10-METHOXYCINCHONAMINE	Tissue Culture	--	--		
2	10-METHOXYCINCHONAMINE	Leaf	--	--		
0	2,4,5-TRIHYDROXY-1-METHOXY-ANTHRAQUINONE	Tissue Culture	--	--		
0	2-HYDROXY-1,3,4,6-TETRAMETHOXY-ANTHRAQUINONE	Tissue Culture	--	--		
0	2-HYDROXY-1,3,4-TRIMETHOXY-ANTHRAQUINONE	Tissue Culture	--	--		
3	3-ALPHA,17-ALPHA-CINCHOPHYLLINE	Stem	--	--		
3	3-ALPHA,17-BETA-CINCHOPHYLLINE	Leaf	--	--		
3	3-ALPHA,17-BETA-CINCHOPHYLLINE	Stem	--	--		
3	3-BETA,17-BETA-CINCHOPHYLLINE	Leaf	--	--		
0	3-EPIQUINAMINE	Leaf	--	--		
0	6,7-DIHYDROXY-1-METHOXY-2-METHYL-ANTHRAQUINONE	Tissue Culture	--	--		
11	ALIZARIN	Tissue Culture	--	--		
2	ALIZARIN-1-METHYL-ETHER	Tissue Culture	--	--		
3	ALIZARIN-2-METHYL-ETHER	Tissue Culture	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALKALOIDS	Bark	50000	150000	1.435390254524195	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	ANTHRAGALLOL-1,2-DIMETHYL-ETHER	Tissue Culture	--	--		
102	CAFFEIC-ACID	Leaf	--	--		
102	CAFFEIC-ACID	Bark	--	--		
0	CATECHOL-TANNINS	Bark	--	80000		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
77	CHLOROGENIC-ACID	Leaf	--	--		
0	CHRYSANTHEMIN	Leaf	--	--		
5	CHRYSAZIN	Tissue Culture	--	--		
0	CINCHONAIN-IA	Bark	--	396		
0	CINCHONAIN-IB	Bark	--	836		
0	CINCHONAIN-IC	Bark	--	44		
0	CINCHONAIN-ID	Bark	--	51		
0	CINCHONAIN-IIA	Bark	--	327		
3	CINCHONAIN-IIB	Bark	--	291		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CINCHONAIN-III-B	Bark	--	--		Takechi, M., Tanaka, Y., Takehara, M., Nonaka, G. I., Nishioka, I. 1985. Structure and Antiherpetic Activity Among the Tannins. <i>Phytochemistry</i> 24 10: 2245-2250.
1	CINCHONAMINE	Stem	--	--		
1	CINCHONAMINE	Tissue Culture	--	--		
0	CINCHONAMINONE	Bark	--	13014		
0	CINCHONICINOL	Bark	--	9589		
6	CINCHONIDINE	Leaf	--	2200		
6	CINCHONIDINE	Bark	--	25600	-1	
6	CINCHONIDINE	Root	--	1000		
6	CINCHONIDINE	Stem	--	--		
6	CINCHONIDINE	Shoot	--	600		
0	CINCHONININE	Bark	--	28767		
0	CINCHONININE	Leaf	--	--		
0	CINCHONININE	Shoot	--	1000		
0	CINCHONININE	Root	--	2700		
0	CINCHONININE	Stem	--	--		
0	CINCHONINONE	Stem	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CUPREINE	Bark	--	--		
0	CYANIDIN-3-O-ALPHA-L-RHAMNOSIDE	Leaf	--	--		
0	DIHYDROCINCHONIDINE	Tissue Culture	--	--		
0	DIHYDROCINCHONIDINE	Stem	--	--		
0	DIHYDROCINCHONINE	Tissue Culture	--	--		
0	DIHYDROCINCHONINE	Stem	--	--		
2	DIHYDROQUINIDINE	Leaf	--	--		
2	DIHYDROQUINIDINE	Stem	--	52		
0	DIHYDROQUININE	Leaf	--	--		
0	DIHYDROQUININE	Stem	--	--		
0	DIHYDROXY-2-METHYL-ANTHRAQUINONE	Tissue Culture	--	--		
0	DIHYDROXY-DIMETHOXY-ANTHRAQUINONE	Tissue Culture	--	--		
0	DIHYDROXY-TRIMETHOXY-ANTHRAQUINONE	Tissue Culture	--	--		
0	EO	Bark	--	50	-0.960720063548411	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
1	HYDROQUININE	Tissue Culture	--	--		
30	HYPEROSIDE	Leaf	--	--		
0	METHYLSUCCIRUBINE	Bark	--	--		
0	NICOTIFLOROSIDE	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PROANTHOCYANIDIN-A-2	Bark	--	11	1	
0	PROANTHOCYANIDIN-B2	Bark	--	691	1	
0	PROANTHOCYANIDIN-B5	Bark	--	182	0.9999999999999999	
0	PROANTHOCYANIDIN-C1	Bark	--	36	-1	
43	PROTOCATECHUIC-ACID	Leaf	--	--		
2	PURPURIN	Tissue Culture	--	--		
2	PURPURIN-1-METHYL-ETHER	Tissue Culture	--	--		
0	QUERCETIN-3-O-ALPHA-L-RHAMNO-GLUCOSIDE	Leaf	--	--		
0	QUINAMINE	Stem	--	--		
0	QUINAMINE	Tissue Culture	--	--		
0	QUINAMINE	Leaf	--	--		
23	QUINIDINE	Stem	--	48		
23	QUINIDINE	Root	--	500		
23	QUINIDINE	Leaf	--	400		
23	QUINIDINE	Shoot	--	100		
23	QUINIDINE	Bark	--	--		
2	QUINIDINONE	Stem	--	--		
32	QUININE	Bark	21800	65753	1	
32	QUININE	Leaf	400	9200		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
32	QUININE	Shoot	--	700		
32	QUININE	Stem	--	112		
32	QUININE	Root	--	1300		
3	QUINOVIC-ACID	Bark	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
3	QUINOVIC-ACID	Stem	--	--		
0	QUINOVIC-ACID-3-O-ALPHA-L-RHAMNOSIDE	Stem	--	130		
1	RUBIADIN	Tissue Culture	--	--		
0	SUCCIRUBINE	Bark	--	--		